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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ECONOMICS

May 29, 1947

PRELIMINARY REPORT ON SURVEY OF FARM ACCIDENTS

Reserve

One person was injured during the last quarter of 1946, for every 28 farms included in a sample survey made by the Bureau of Agricultural Economics of the U. S. Department of Agriculture. The injuries ranged in severity from a fatal burn to a mashed finger.

The survey, made in January 1947, included about 15,000 farms in 814 counties. The method of selection was designed to obtain figures representative of the entire Nation. Although subject to later revision, the figures thus obtained are the most complete yet available on farm accidents.

The accidents reported included all injuries to persons living or working on farms covered in the survey, regardless of whether the injuries occurred on or off of the farm. Medical, dental and hospital expenses resulting from these accidents amounted to a little more than \$40 per person injured. The time lost from usual activities (work for adults and school or play for children) was reported to be about three weeks per farm person injured.

If the farms included in the survey were typical of the entire country, the results would indicate that from October through December there were roughly 210,000 accidents that injured people living or working on farms; that the injuries cost a total of \$8,750,000 for medical, dental and hospital expenses; and that the time lost from usual activities totaled $4\frac{1}{2}$ million days.

The survey indicated that about 8 percent of all the injuries were in the Northeastern States, 10 percent in the Western States, 38 percent in the North Central States, and nearly 44 percent in the Southern States. Although the number of injuries was closely related to the number of people living or working on farms in each area, the rate was a little above average in the highly mechanized North Central States. Only 19 percent of the injuries involving costs were covered by any insurance, and these were covered to an extent of only 15 percent of the total costs to those insured.

Falls injured more farm people than any other type of accident, and falls on stairs and steps or from vehicles were the most common. Falls on ice and falls involving home furnishings also led to a number of serious injuries. Many of the common falls resulted from carelessness and the disorderly condition of stairways, shops, alleyways and barns. Machinery was involved in over 14 percent of the accidents, and tractors in a third of the accidents caused by machinery. Corn pickers were the second most common cause of injuries from machinery. Of the other accidents caused by machinery, combines, circular saws, mowing machines, corn shellers and grain elevators were reported most frequently. Farm animals caused 12 percent of the accidents reported. Horses and mules were responsible for 60 percent of these.

Nearly 60 percent of the people injured were adults between 25 and 64 years old. This age group represents about the same proportion of the total farm population. Between the ages of 14 and 64, there were about four times as many boys and men injured as there were women and girls. Of the youngsters under 14, nearly 65 percent were boys.

About 56 percent of the accidents to farm people were the result of farm work, while only 8 percent occurred in connection with housework. Recreation and other activities accounted for the rest. About half the accidents occurred outside the home, but on the farm. One-quarter were in the home, and one-eighth were on the road or street.

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More farm people had accidents in October than in either November or December, probably because of the large amount of harvest work in October.

About 46 percent of all accidents were to farm operators and in 7 out of every 10 accidents the operator was doing farm work. In contrast, although accidents to members of operators' families amounted to nearly 45 percent of the total, only 4 out of 10 were performing farm work.

In general, these data are not considered adequate for making national estimates of the number of accidents by types. Also, the sample used was not large enough to answer certain fundamental questions - such as giving an adequately accurate estimate of fatal accidents out of all accidents on the nation's farms. Nor was it large enough for reliable State accident estimates or for more detailed study of the causes of accidents to farm people.

Accidents on farms; Place of accident by type, by person injured and by type of activity, October - December, 1946 ^{1/}

Type of accident	Place of accident					Totals
	Home	Farm	Road or street	Else-where	Unknown	
	Percent	Percent	Percent	Percent	Percent	Percent
Machine	1	10	1	2	*	14
Falls of persons	9	11	1	3		24
Animals	1	9	1	1		12
Burns or shock	4	*	*	*		4
Hand tools	3	6		*		10
Handling objects	1	3	*	3		8
Falling objects	*	2		*		3
Stepping or striking against objects	*	3	*	*		4
Motor vehicles	*	*	9	*		11
Other	1	3	*	1		6
Unknown	1	2	*	*		4
Totals	23	50	13	14	*	100
Person injured						
Operator	8	25	6	8		46
Member of family	14	18	7	6		45
Hired worker	*	6	*	*	*	7
All others	*	*	*	*		2
Unknown		*			*	*
Totals	23	50	13	14	*	100
Type of activity						
Farm work	8	42	3	3		56
Housework	7	2		*		9
Recreation	4	3	3	3		13
Other	4	3	7	8		22
Unknown					*	*
Totals	23	50	13	14	*	100

^{1/} Based on 633 reported accidents.

* Less than 1 percent.

Accidents on farms by month and type of activity

Month	Type of activity					Totals
	Farm	House-		All		
	work	work	Recreation	other	Unknown	
	Percent	Percent	Percent	Percent	Percent	Percent
October	23	3	5	9		40
November	17	3	3	6		29
December	16	3	4	8		31
Unknown		*			*	*
Totals (%)	56	9	12	23	*	100

Accidents on farms by type of activity and by person injured

Type of activity	Person injured					Total
	Operator	Member of family	Hired worker	All others	Unknown	
	Percent	Percent	Percent	Percent	Percent	Percent
Farmwork	52	17	6	*	*	56
Housework	2	6	*	*		9
Recreation	2	11	*	*		13
Other	10	11	*	*		22
Unknown			*		*	*
Totals (%)	46	45	7	2	*	100

Loss of time from regular activities due to accidents on farms by geographic areas

Geographic area	Accidents		Average		Percent of accidents			
	reporting loss		days		by			
	of time		lost		number of days lost			
	No.	% total	per	1 day	2 - 7	8 - 30	30 or more	
Northeast	73	78	28	15	27	32	26	
North Central	183	84	19	19	31	28	23	
South	209	91	23	8	27	31	33	
West	72	82	19	18	37	23	23	
U. S.	537	86	22	13	29	29	28	

Distribution of accidents on farms by age groups of person injured

Age groups	Percent of total accidents
Under 14	
yrs.	14
14-24 yrs.	17
25-44 yrs.	30
45-64 yrs.	28
65 yrs. and over	10
Age unknown	*

* Less than 1 percent.

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Accidents on farms by type of accident and sex of injured

Type of accident	Accidents		
	Total	Male	Female
	number reported	Percent of total by types	Percent of total by types
Machine	88	91	9
Falls of persons	155	69	31
Animals	74	81	19
Burns or shock	26	48	52
Hand tools	67	84	16
Handling objects	46	81	19
Falling objects	20	90	10
Stepping on or striking against objects	25	65	35
Motor vehicles	68	72	28
Other	38	90	10
Unknown	26	88	12
All accidents	633	78	22

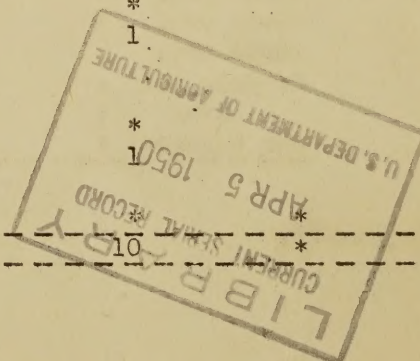
Accidents on farms by type of activity and sex of injured

Type of activity	Accidents		
	Total number	Male	Female
	accidents reported	Percent of total by type of activity	Percent of total by type of activity
Farm work	358	90	10
Housework	53	29	71
Recreation	76	72	28
All other	144	70	30
Unknown	2	100	
All accidents	633	78	22

Accidents on farms by type of accident and age groups

Type of accident	Age groups				
	Under 14 yrs.	14 - 64 yrs.	65 and over	Unknown	Total
	Percent of all accidents	Percent of all accidents	Percent of all accidents	Percent of all accidents	Percent of all accidents
Machine	1	12	*	*	14
Falls of persons	5	16	3		24
Animals	1	9	2	*	12
Burns or shock	2	2	*		4
Hand tools	1	8	*		10
Handling objects	*	6	*		8
Falling objects		2	1		3
Stepping on or striking against objects	1	3			4
Motor vehicles	1	9			11
Other	*	5			6
Unknown	*	3			4
All accidents	14	76	10	*	100

* Less than 1 percent.



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UNITED STATES DEPARTMENT OF AGRICULTURE
BUREAU OF AGRICULTURAL ECONOMICS

June 2, 1947

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The survey, made in January 1947, included about 15,000 farms in 814 counties. The method of selection was designed to obtain figures representative of the entire Nation. The figures thus obtained are the most complete yet available on farm accidents.

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The survey indicated that about 8 percent of all the injuries were in the Northeastern States, 10 percent in the Western States, 38 percent in the North Central States, and nearly 44 percent in the Southern States. Although the number of injuries was closely related to the number of people living or working on farms in each area, the rate was a little above average in the highly mechanized North Central States. Only 19 percent of the injuries involving costs were covered by any insurance, and these were covered to an extent of only 15 percent of the total costs to those insured.

Falls injured more farm people than any other type of accident, and falls on stairs and steps or from vehicles were the most common. Falls on ice and falls involving home furnishings also led to a number of serious injuries. Many of the common falls resulted from carelessness and the disorderly condition of stairways, shops, alleyways and barns. Machinery was involved in over 14 percent of the accidents, and tractors in a third of the accidents caused by machinery. Corn pickers were the second most common cause of injuries from machinery. Of the other accidents caused by machinery, combines, circular saws, mowing machines, corn shellers and grain elevators were reported most frequently. Farm animals caused 12 percent of the accidents reported. Horses and mules were responsible for 60 percent of these.

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In general, these data are not considered adequate for making national estimates of the number of accidents by types. Also, the sample used was not large enough to answer certain fundamental questions - such as giving an adequately accurate estimate of fatal accidents out of all accidents on the Nation's farms. Nor was it large enough for reliable State accident estimates or for more detailed study of the causes of accidents to farm people.

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BUREAU OF AGRICULTURAL ECONOMICS
WASHINGTON 25, D. C.

NOVEMBER 1948

ACCIDENTS TO FARM PEOPLE AND FARM WORKERS, JANUARY - APRIL 1948

Five persons were reported injured during the first 4 months of 1948 for every 100 farms included in a sample survey made by the Bureau of Agricultural Economics. The survey, the second of a series designed to cover all seasons of the year, included interviews of a sample of about 12,000 farmers in 871 counties, selected to be representative of the entire Nation. 1/

From the survey it is estimated that for the whole Nation, farm people and farm workers had approximately 275,000 lost-time accidents during the 4 months January through April, and lost 6 million days or more from regular activities. No allowance was made for time lost by persons who were fatally injured or permanently and totally disabled. Average time lost per accident reported was about 22 days, or just over 3 weeks. Medical, dental, and hospital expenses which resulted from these accidents averaged just over \$40 per person injured, or about \$52 per person if accidents involving no such costs are excluded. The total bill for medical, dental, and hospital care of injured persons was estimated at more than 11 million dollars.

Twice as many farm people were injured in falls as in any other type of accident. Falls on ice were more numerous than any other kind of fall, but falls on stairs, from vehicles, from structures, and from home furniture led to many serious injuries. The next most common type of accident involved animals. Horses and mules were responsible for half of these accidents, and cattle other than bulls for a third. Very few accidents involving bulls were reported. Third in importance were accidents due to motor vehicles which accounted for 1 out of every 9, with passenger cars responsible for 70 percent and trucks for more than 25 percent of such accidents. Trailers and motorcycles accounted for the remainder. Accidents due to machines were the fourth most common type; they were about 10 percent of the total. Tractors accounted for 30 percent of the machine accidents during this 4 month period. Among hand tools, axes caused more lost-time accidents than was true of any other tool. They were involved in 4 percent of all accidents - as many as the falls on the ice and as many as the accidents involving cattle other than bulls. Injuries that resulted from the handling of heavy objects, stepping on or striking against sharp objects, and being in the way of falling trees and lumber also bulked large in the total; they aggregated 13 percent of all accidents. Some 10 percent of all accidents were not sufficiently described to permit classification into any one of the nine major types.

Accidents to men and boys were considerably more numerous than accidents to women and girls in all age groups. Twice as many boys in the age group under 14 years were injured as were girls. In the 14 - 64 age group, about 4 times as many men and boys were injured as women and girls, and for those 65 years old or older 3 times as many men as women were injured. Combining all ages, $3\frac{1}{2}$ times as many men and boys were injured as women and girls. The average cost of medical care increased with increasing age, but the average cost of this care to males and to females showed no significant difference. About 49 percent of all accidents were the result of farm work. Of the total, 18 percent occurred while the injured was doing chores and 31 percent while engaged in other farm work. Only 5 percent of the accidents were associated with housework; 16 percent happened in the course of recreational activities; and 30 percent occurred while the injured was engaged in some other or in an unspecified activity. More than

1/ The first report in the series was issued May 29, 1947 and is entitled "Preliminary Report on Survey of Farm Accidents."

two-thirds of the accidents took place on the farm, a sixth in the house, about a fourth in other buildings on the farm, and 30 percent elsewhere on the farm. One-ninth of the accidents happened on road, or street; almost a fifth were elsewhere off the farm; and the location of about 2 percent could not be learned.

More than 40 percent of all accidents involved farm operators; about 45 percent happened to members of their families; 7 percent happened to hired farm workers; and a somewhat smaller percentage involved other persons. During this 4 month period, about 20 operators out of every thousand were involved in a lost-time accident. Comparable accident rates were 12 per thousand for hired farm workers and 7 per thousand for members of operators' families and others. The accident rate for hired workers is probably understated, as nonwork accidents of hired workers not living on the farm were incompletely reported. Over two-thirds of the accidents to farm operators and hired workers happened while they were doing farm work, but only about a third of the accidents to family members were associated with farm work. Almost a third of the accidents that involved members of operators' families were recreational accidents.

More accidents occurred in April than in any of the 3 earlier months, primarily because of greater farm-work activity. Accidents which occurred while the injured person was doing farm work other than chores increased 50 percent from March to April. Chore accidents increased even more; this was probably because of greater haste and fatigue on the part of persons who had been working long hours at other farm work and because farm operators in busy seasons are likely to shift the chores to members of their families who are apparently less aware of the hazards and less qualified to avoid such hazards. Accidents associated with other activities were no more numerous in April than in March. As might be expected, the locations in which accidents increased from March to April were in the barn or other buildings and elsewhere on the farm, as it is in these two locations that the bulk of the farm work is done. By types, the increase was distributed between the accidents that involve hand tools, machines, animals, burns or shock, handling objects, falling objects, and stepping on or striking against objects.

Regional distributions of accident numbers, lost time, and medical costs differ somewhat from the regional distribution of the farm population. The Northeast, with slightly less than 9 percent of the farm population, reported about the same proportion of the accidents and lost time, but accounted for about 16 percent of the total cost. The average cost per accident was about \$80 in the Northeast compared with a United States average of \$40. In the North Central region, the accident rate was 10 percent above the national average, whereas the average amount of lost time and the average cost per accident were each about the same as the national average. The South, on the other hand, reported about a 10-percent lower accident rate and about one-sixth lower average cost per accident than the national average. In the West, the accident rate reported was about 50 percent higher than the national average, lost time per accident was 10 percent below the average, and cost per accident roughly equaled the national figure.

Accident and workmen's compensation insurance played a relatively minor part in defraying medical costs. About 17 percent of the accidents involving known costs were covered by insurance, and the insurance paid 21 percent of the costs of all accidents. Coverage was much higher in the North Central region than elsewhere, in this region 31 percent of the accidents and 34 percent of the costs were covered. In the South, only 7 percent of the accidents and 11 percent of the costs were covered.

Technical Note: As the estimates contained in this report were based on a sample, they are subject to sampling variation. The chances are 19 out of 20 that the sampling error of the estimated number of accidents lies within the ranges shown in the following table. These ranges are shown separately for the United States as a whole and for regions, together with the estimated number of accidents. It should be noted that the range for the United States estimate is smaller than the sum of the ranges for the four regions. Errors due to memory bias and other response difficulties are, of course, not included in these figures. They are of unknown magnitude but probably result in an understatement of the less serious and less recent accidents. It is also likely that, as interviews were usually made with the farm operator, accidents to persons other than the operator may be understated.

Area	Estimated number of accidents	Chances are 19 out of 20 that the difference between the estimate and the number that would have been obtained in a complete count would be less than:	
United States	275,000		25,000
Northeast	23,000		5,000
North Central	91,000		15,000
South	128,000		18,000
West	33,000		7,000

Because of the limited size of the sample, the drawing of inferences for geographical areas smaller than the four broad regions, or in regard to some aspects of farm accidents for any area smaller than the entire United States, is not warranted.

Table 1. -Accidents to farm people and farm workers: Place of accident by type of accident, by person injured, and by activity, January through April 1948

	Place of accident						
	Barn or other building:		Elsewhere on farm or street:		Road or elsewhere:		Total
	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Type of accident:							
Falls of persons	6	5	7	1	5	1	25
Animals	-	7	4	*	*	*	12
Motor vehicles	-	*	1	9	*	*	11
Machines	*	3	4	*	2	*	10
Hand tools	1	1	3	*	1	*	7
Handling objects	*	2	2	-	2	*	7
Stepping on or striking against objects	1	1	3	*	1	*	7
Falling objects	*	1	3	-	2	-	6
Burns or shock	3	*	1	-	1	-	5
Other	3	1	1	*	3	*	8
Unknown	*	*	1	-	*	*	2
Total	16	22	30	11	19	2	100
Person injured:							
Operator	4	13	14	2	8	*	41
Member of operator's family	11	7	11	7	8	*	45
Hired worker	*	1	4	1	*	-	7
All others	1	1	1	1	2	*	6
Unknown	-	-	-	*	*	1	1
Total	16	22	30	11	19	2	100
Activity:							
Housework	4	-	*	-	-	-	5
Chores	3	9	5	*	*	-	18
Other farm work	1	9	20	*	1	*	31
Recreation	3	2	2	4	5	-	16
Other	5	2	3	6	12	-	28
Unknown	-	-	*	*	-	2	2
Total	16	22	30	11	19	2	100

* Less than 0.5 percent.

Table 2.- Accidents to farm people and farm workers: Month of accident by type of accident, by place of accident, and by activity, January- through April 1948

Type of accident	Month of Accident					Totals
	January	February	March	April	Unknown	
	Pcts.	Pct.	Pct.	Pct.	Pct.	Pct.
Falls of persons	7	7	5	5	1	25
Animals	2	2	3	4	*	12
Motor vehicles	2	2	3	3	1	11
Machines	2	2	2	3	1	10
Hand tools	2	1	1	3	*	7
Handling objects	1	2	1	2	*	7
Stepping on or striking: against objects	*	1	2	3	*	7
Falling objects	1	1	1	2	*	6
Burns or shock	1	1	1	2	-	5
Other	1	2	3	1	1	8
Unknown	*	*	*	1	*	2
Total	20	22	23	29	6	100

Place of accident	Month of Accident					Totals
	January	February	March	April	Unknown	
	Pcts.	Pct.	Pct.	Pct.	Pct.	Pct.
Home	3	4	5	3	*	16
Barn or other building	3	5	5	8	1	22
Elsewhere on farm	6	6	6	10	2	30
Road or street	3	2	3	3	*	11
Elsewhere	4	5	4	5	1	19
Unknown	*	-	-	-	2	2
Total	20	22	23	29	6	100

Activity	Month of Accident					Totals
	January	February	March	April	Unknown	
	Pcts.	Pct.	Pct.	Pct.	Pct.	Pct.
Housework	2	1	*	1	-	5
Chores	3	5	3	6	1	18
Other farm work	6	6	7	10	2	31
Recreation	4	3	4	5	*	16
Other	5	7	8	7	1	28
Unknown	*	-	*	-	2	2
Total	20	22	23	29	6	100

* Less than 0.5 percent.

Table 3.--Accidents to farm people and farm workers: Average cost per accident and extent of insurance coverage, by geographic area, January through April 1948

Geographic area	Average cost per accident		Extent of insurance coverage, accidents involving cost	
	Including	Excluding	Percentage	Percentage
	accidents	accidents	accidents	costs
	with no cost	with no cost	insured	covered
	Dollars	Dollars	Percent	Percent
Northeast.....	80	95	17	30
North Central.....	42	52	31	34
South.....	33	45	7	11
West.....	40	51	26	16
United States.....	40	52	17	21

Table 4.--Accidents to farm people and farm workers: Average cost per accident, by place of accident and by age group, January through April 1948

Place of accident	Average cost per accident, including accidents with no cost	
	Dollars	
Home.....	47	
Barn or other building....	21	
Elsewhere on farm.....	35	
Road or street.....	57	
Elsewhere.....	59	
All locations.....	40	
Age group	Average cost per accident, excluding accidents with no cost	
	Dollars	
Under 14 years.....	43	
14 - 24 years.....	43	
25 - 44 years.....	48	
45 - 64 years.....	58	
65 years and over.....	92	
All ages.....	52	

Table 5.- Farm population and accidents to farm people and farm workers: Sex of injured person by type of accidents and activity, January through April 1948

	Sex			
	Male	Female	Unknown	Total
	Percent			
Farm population, all ages <u>1</u> /.....	52	48	-	100
Type of accident:				
Falls of persons.....	61	38	1	100
Animals.....	86	14	-	100
Motor vehicles.....	70	26	4	100
Machines.....	90	9	1	100
Hand tools.....	93	7	-	100
Handling objects.....	95	5	-	100
Stepping on or striking against objects	76	24	-	100
Falling objects.....	95	5	-	100
Burns or shock.....	61	39	-	100
Other.....	74	25	1	100
Unknown.....	54	40	6	100
All types.....	77	22	1	100

Activity:				
Housework.....	14	86	-	100
Chores.....	70	30	-	100
Other farm work.....	94	6	-	100
Recreation.....	71	29	-	100
All other.....	78	22	-	100
Unknown.....	41	14	45	100
All activities.....	77	22	1	100

1/ Sex distribution of farm population as of April 1947, Census-BAE, No. 12.

Table 6.- Accidents to farm people and farm workers: Distribution between regions of farm population, farm accidents, time lost, and cost

Geographic area	Percentage of United States total			
	Farm ^{1/}		Lost	
	population	Accidents	time	Cost
	Pct.	Pct.	Pct.	Pct.
Northeast	9	8	8	16
North Central	30	33	34	33
South	53	47	47	38
West	8	12	11	13
United States	100	100	100	100

^{1/} Farm population as of January 1, as previously published by the Bureau of Agricultural Economics, January 1948.

Table 7.- Accidents to farm people and farm workers: Loss of time from regular activities due to accidents, by geographic areas

Geographic area	Average days	Percentage of accidents, by number of days lost			
	lost per	1 - 7	8 - 30	31 days	
	accident	days	days	or over	Totals
	Number	Percent	Percent	Percent	Percent
Northeast	22	42	38	20	100
North Central	22	47	37	16	100
South	22	53	34	13	100
West	19	43	42	15	100
United States	22	49	37	14	100

Table 8.- Farm population and accidents to farm people and farm workers:
Distributions by age group, January through April 1948

Age group	Population <u>1/</u>	Accidents
	Percent	Percent
Under 14 years	30	17
14 - 24 years	18	17
25 - 44 years	25	31
45 - 64 years	20	24
65 years and over	7	9
Age unknown	-	2
Total	100	100

1/ Age distribution of farm population as of April 1947, Census-BAE, No. 11.

Table 9. -Farm population and accidents to farm people and farm workers:
Age group of person injured, by type of accident, January through
April 1948

	Age group				
	Under 14 : years	14 - 64 : years	65 years : and over	Unknown	Totals
	Percent				
Farm population <u>1/</u>	30	63	7	-	100
Type of accident:					
Falls of persons	6	16	3	*	25
Animals	1	10	1	*	12
Motor vehicles	3	7	*	*	11
Machines	1	7	1	*	10
Hand tools	1	6	*	-	7
Handling objects	*	6	*	-	7
Stepping on or striking against objects	1	5	1	-	7
Falling objects	*	5	1	-	6
Burns or shock	1	4	*	-	5
Other	3	5	*	*	8
Unknown	*	1	-	*	2
All types	17	72	9	2	100

* Less than 0.5 percent.

1/ Age distribution of farm population as of April 1947, Census-BAE, No. 11.

Table 10. -Accidents to farm people and farm workers: Activity of injured person, by person's status on farm, January through April 1948

	Activity of injured						
Person injured	House- work	Chores	farm work	Recrea- tion	All other	Un- known	Totals
	Percent						
Operator	1	10	18	1	11	*	41
Member of family	4	7	8	14	11	1	45
Hired worker	-	1	4	*	2	-	7
All others	*	*	1	1	3	*	6
Unknown	-	-	-	-	*	1	1
Total	5	18	31	16	28	2	100

* Less than 0.5 percent.

Table 11. -Accidents to farm people and farm workers: Average cost and average number of days lost per accident, by type of accident, January through April 1948

Type of accident	Average cost per accident 1/ Dollars	Average number of days lost per accident Number
Machines	75	23
Motor vehicles	58	32
Burns or shock	45	16
Falls of persons	42	26
Falling objects	39	23
Animals	29	17
Handling objects	22	14
Hand tools	18	12
Stepping on or striking against objects	17	16
Other	44	31
All types	40	22

1/ Including accidents involving no cost.

